

ABSTRACT:

The present invention relates to a device for comparison CMP, which is designed to emit a control signal V_{cnt} , which is representative of a difference which exists between the input signal frequencies V_{div} and V_{ref} .

The device according to the invention includes:

- 5 • a phase/frequency comparator PD, which supplies a regulation signal T_{un} , which is subjected to pulse width modulation according to the difference observed;
- a current source, which is designed to emit a charge current I_{cs} , with a value which is controlled by the regulation signal T_{un} ; and
- 10 • a capacitive element C_s , which is designed to generate the control signal V_{cnt} , under the effect of the charge current I_{cs} .

By means of a regulation signal T_{un} , which has a frequency which is virtually constant, the invention makes it possible to impose high-frequency variations on the control signal V_{cnt} .

15 Application: Frequency synthesizers

Reference: Figure 1